

## CLAIMS

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1. A computer-based system of building virtual network devices, said network devices connected to one or more servers across network communication mediums, said system comprising:
    - a first function device;
    - a second function device;
    - a remote terminal server, said remote terminal server operatively connected to at least said first and second function devices;
    - a processing function within said terminal, said processing function including a session which includes discovery, association and registration of at least said first and second function devices, and
    - said processing function emulating an equivalent network device based on the combined capabilities of said first and second function devices, their inputs/outputs sent and received during said session, and applications of said equivalent network device.
  2. A computer-based system of building virtual network devices, as per claim 1, wherein said system comprises two or more function devices.
  3. A computer-based system of building virtual network devices, as per claim 2, wherein said first and second function devices are any from the group: microphone, speaker(s), keyboard, text display, video capture units, video display(s), pointing device(s), and coordinate device(s).
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4. A computer-based system of building virtual network devices, as per claim 2, wherein  
said equivalent network device comprises a virtual telephone comprising four function  
devices.
5. A computer-based system of building virtual network devices, as per claim 3, wherein  
said four function devices comprise at least a microphone, speaker(s), keyboard and  
text display.
6. A computer-based system of building virtual network devices, as per claim 1, wherein  
said terminal server processes inputs/outputs comprising system control signaling and  
RTP data communications.
7. A computer-based system of building virtual network devices, as per claim 2, said two  
or more function devices comprise at least a microphone, speaker(s), keyboard and  
video display which are associated and registered to build a virtual laptop computer.
8. A computer-based system of building virtual network devices, as per claim 2, wherein  
said two or more function devices include a plurality of video capture devices which  
are associated and registered to build a virtual closed circuit security system.
9. A computer-based system of building virtual network devices, as per claim 2, wherein  
said two or more function devices include a plurality of video display devices which  
are associated and registered to build a virtual video on demand system.
10. A computer-based system of building virtual network devices, as per claim 2, wherein  
said terminal server creates any of a: H.323/SIP, H.248/Megaco or MGCP endpoint  
for said associated devices.

11. A computer-based system of building virtual network devices, as per claim 11, wherein  
said registration registers an alias address comprises any of a: H.323/SIP,  
H.248/Megaco or MGCP URL of said endpoint.
12. A computer-based system of building virtual network devices, as per claim 2, wherein  
said two or more function devices are contained within separate physical structures  
and are each registered under their own URL.
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13. A computer-based system of building virtual network devices, as per claim 2, wherein  
said two or more function devices are contained within a single physical structure and  
are registered under a common URL.
14. A computer-based system of building virtual network devices, as per claim 2, wherein  
said two or more function devices are connected across wireless networks.
15. A computer based method of dynamically building virtual network devices, said  
devices comprising a plurality of input/output components operatively connected to  
one or more remote servers over an IP network, said method comprising:  
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at least one terminal server discovering functional devices connected to said  
network;  
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said at least one terminal server binding two or more of said input/output  
components;  
said at least one terminal server registering said bound input/output components  
and associated communication protocols, and

said at least one terminal server emulating a virtual network device using representative functional applications located on said one or more servers in conjunction with said bound input/output components.

- 5 16. A computer based method of dynamically building virtual network devices, as per claim 15, wherein said method binds two or more input/output components.
- 10 17. A computer based method of dynamically building virtual network devices, as per claim 15, wherein said plurality of input/output components are any from the group: microphone, speaker(s), keyboard, text display, video capture units, video display(s), pointing device(s), and coordinate device(s).
- 15 18. A computer based method of dynamically building virtual network devices, as per claim 15, wherein said virtual network device comprises a virtual telephone comprising four bound input/output components.
- 20 19. A computer based method of dynamically building virtual network devices, as per claim 18, wherein said four bound input/output components comprise at least a microphone, speaker(s), keyboard and text display.
- 25 20. A computer based method of dynamically building virtual network devices, as per claim 15, wherein said terminal server processes inputs/outputs comprising system control signaling and RTP data communications.
- 30 21. A computer based method of dynamically building virtual network devices, as per claim 15, wherein said virtual network device comprises a virtual laptop computer comprising a plurality of bound input/output components comprising at least a microphone, speaker(s), keyboard and video display.

22. A computer based method of dynamically building virtual network devices, as per  
claim 15, wherein said terminal server creates any of a: H.323/SIP, H.248/Megaco or  
MGCP endpoint for said bound devices.
23. A computer based method of dynamically building virtual network devices, as per  
claim 22, wherein said registration registers an alias address comprising any of a:  
H.323/SIP, H.248/Megaco or MGCP of said endpoint.
24. A computer based method of dynamically building virtual network devices, as per  
claim 15, wherein said plurality of bound input/output components are registered  
under separate IP addresses.
25. A computer based method of dynamically building virtual network devices, as per  
claim 15, wherein said plurality of bound input/output components are contained  
within a single physical structure and are registered under a common transport  
address.
26. A computer based method of dynamically building virtual network devices, as per  
claim 15, wherein said plurality of bound input/output components are contained  
within separate physical structures and are each registered under their own transport  
addresses.
27. A computer based method of dynamically building virtual network devices, as per  
claim 15, wherein said plurality of bound input/output components are connected  
across wireless networks.